

Claims

[c1] What is claimed is:

1. A scanning device comprising:

a cold cathode fluorescent lamp (CCFL) for generating light;

a heating light source for generating light;

a timer for counting out a predetermined time period;

a photosensor for detecting light generated by the CCFL and the heating light source; and

a controller for controlling operations of the scanning device;

wherein the heating light source is capable of generating more heat than the CCFL, a warm-up time period of the CCFL is longer than a warm-up time period of the heating light source, and when the timer determines that a time period starting from the CCFL being enabled reaches the predetermined time period, the controller turns off the heating light source and performs scanning of the document using the CCFL.

[c2] 2. The scanning device of claim 1 wherein the predetermined time period is 15 to 30 seconds.

[c3] 3. The scanning device of claim 1 wherein the scanning

device is a flat bed scanner, a paper fed scanner, a copier, a Fax machine, or a multi-function product (MFP).

- [c4] 4.The scanning device of claim 1 wherein the heating light source is a metal halide lamp.
- [c5] 5.The scanning device of claim 1 wherein the CCFL and the heating light source are installed within a scanning module of the scanning device.
- [c6] 6. The scanning device of claim 1 wherein when the heating light source is enabled, the controller performs scanning of the document using the heating light source.
- [c7] 7.A multi-function product comprising:
 - a scanning device comprising:
 - a cold cathode fluorescent lamp (CCFL) for generating light;
 - a heating light source for generating light;
 - a photosensor for detecting light generated by both the CCFL and the heating light source;
 - a timer for counting out a predetermined time period;
 - and
 - a controller for controlling operations of the scanning device; and
 - a start button connected to the controller, wherein when the start button is triggered, the controller does not en-

able the CCFL so that only the heating light source is used to scan the document;
wherein the heating light source is capable of generating more heat than the CCFL, a warm-up time period of the CCFL is longer than a warm-up time period of the heating light source, and when the timer determines that a time period starting from the CCFL being enabled reaches the predetermined time period, the controller turns off the heating light source and performs scanning of the document using the CCFL.

- [c8] 8. The multi-function product of claim 7 further comprising a control button connected to the controller, and when the control button is pressed, the controller turns on the CCFL and the heating light source simultaneously, and utilizes the CCFL and the heating light source to scan the paper to shorten a scanning time period.
- [c9] 9. The multi-function product of claim 7 wherein the CCFL is a cold cathode fluorescent lamp (CCFL).
- [c10] 10. The multi-function product of claim 7 wherein the heating light source is a metal halide lamp.
- [c11] 11. The multi-function product of claim 7 wherein the photosensor is a charge coupled device (CCD).